

SOV/86-58-8-29/37

AUTHOR: Gershevich, Yu.F., Engr Col, and Afanasyev, G.B.,  
Engr Capt

TITLE: For Greater Scientific Activity Among Engineers of Com-  
bat Units (Aktivizirovat' nauchnuyu rabotu inzhenerov  
stroyevykh chastej)

PERIODICAL: Vestnik vozduzhnogo flota, 1958, Nr 8, pp 80-81 (USSR)

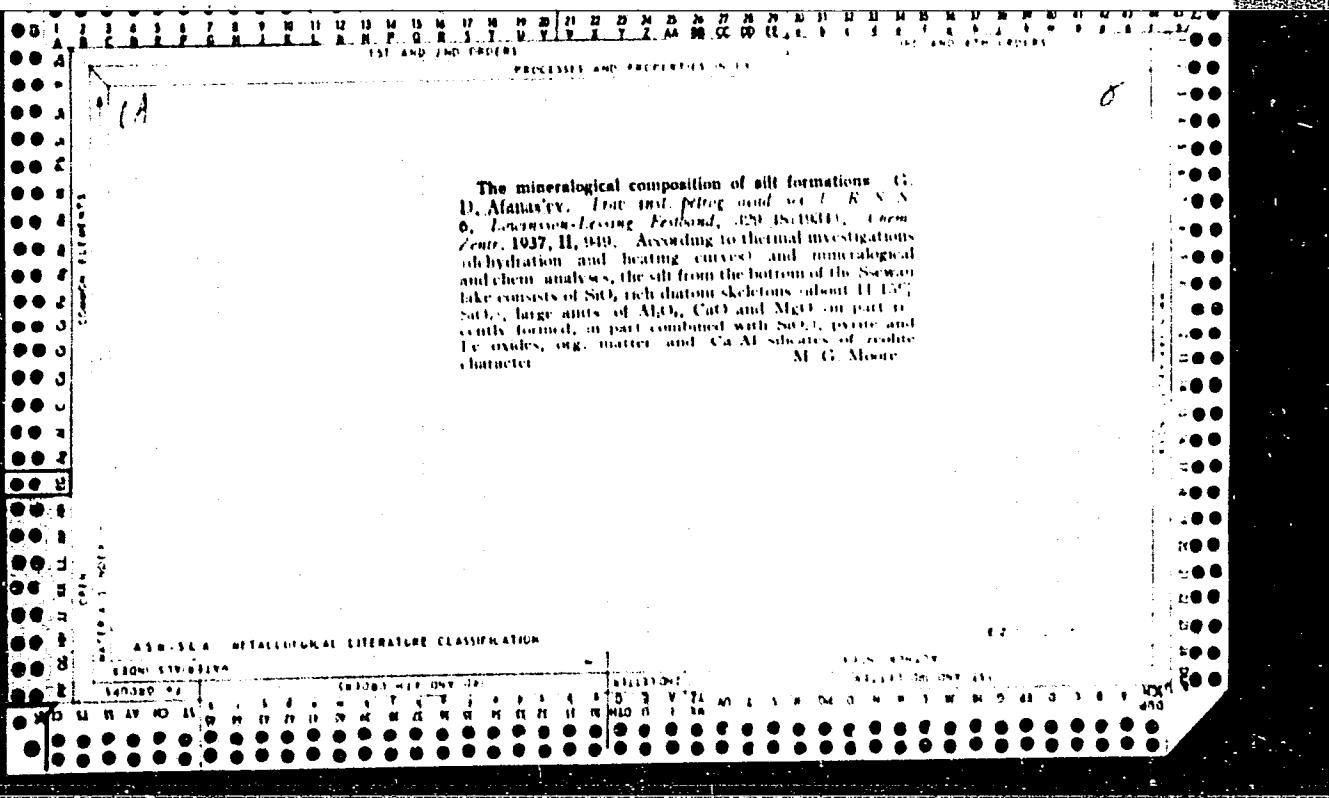
ABSTRACT: The authors are of the opinion that a closer coopera-  
tion between the engineers of combat units and related  
specialists in academies and higher educational insti-  
tutes is needed to effect a more efficient exploita-  
tion of combat materiel. They also note that a special  
periodical for the engineers would be of great impor-  
tance.

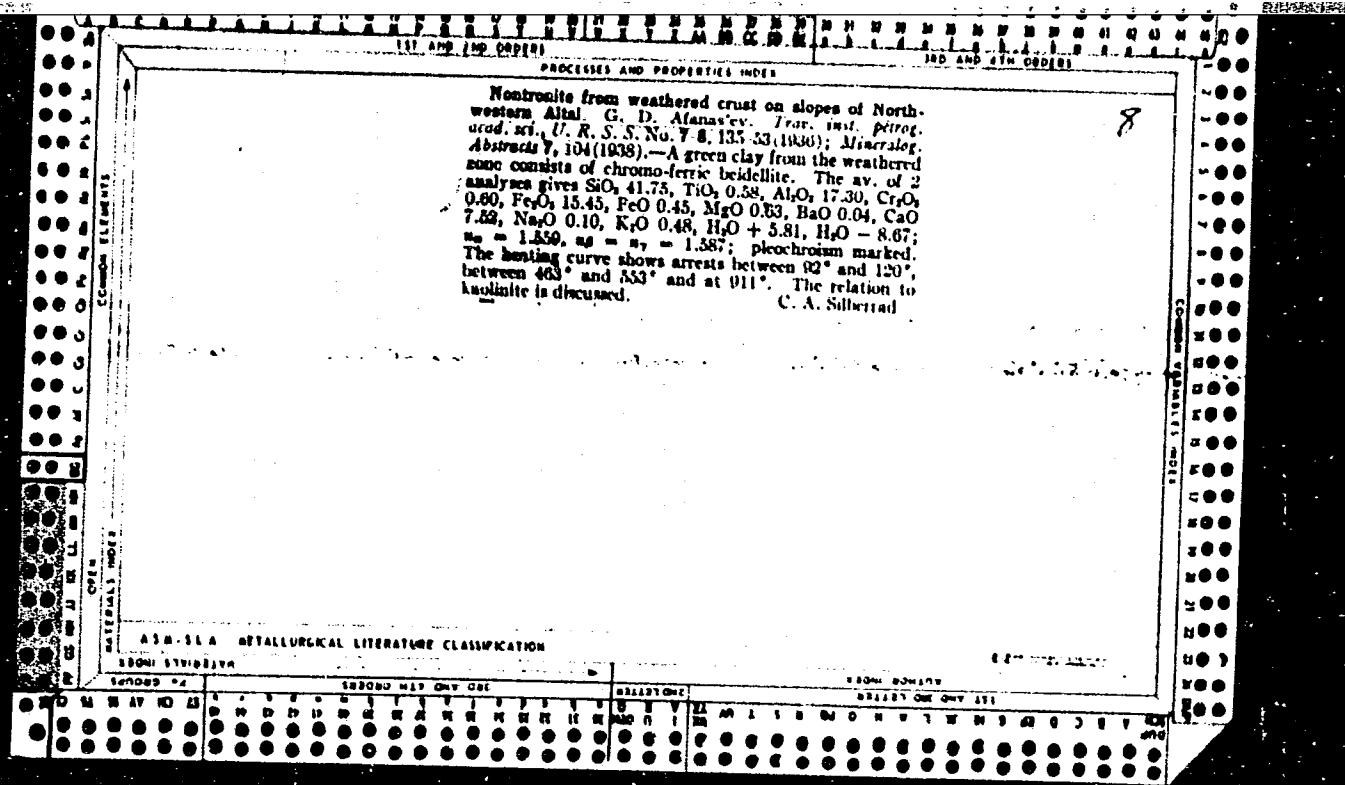
Card 1/1

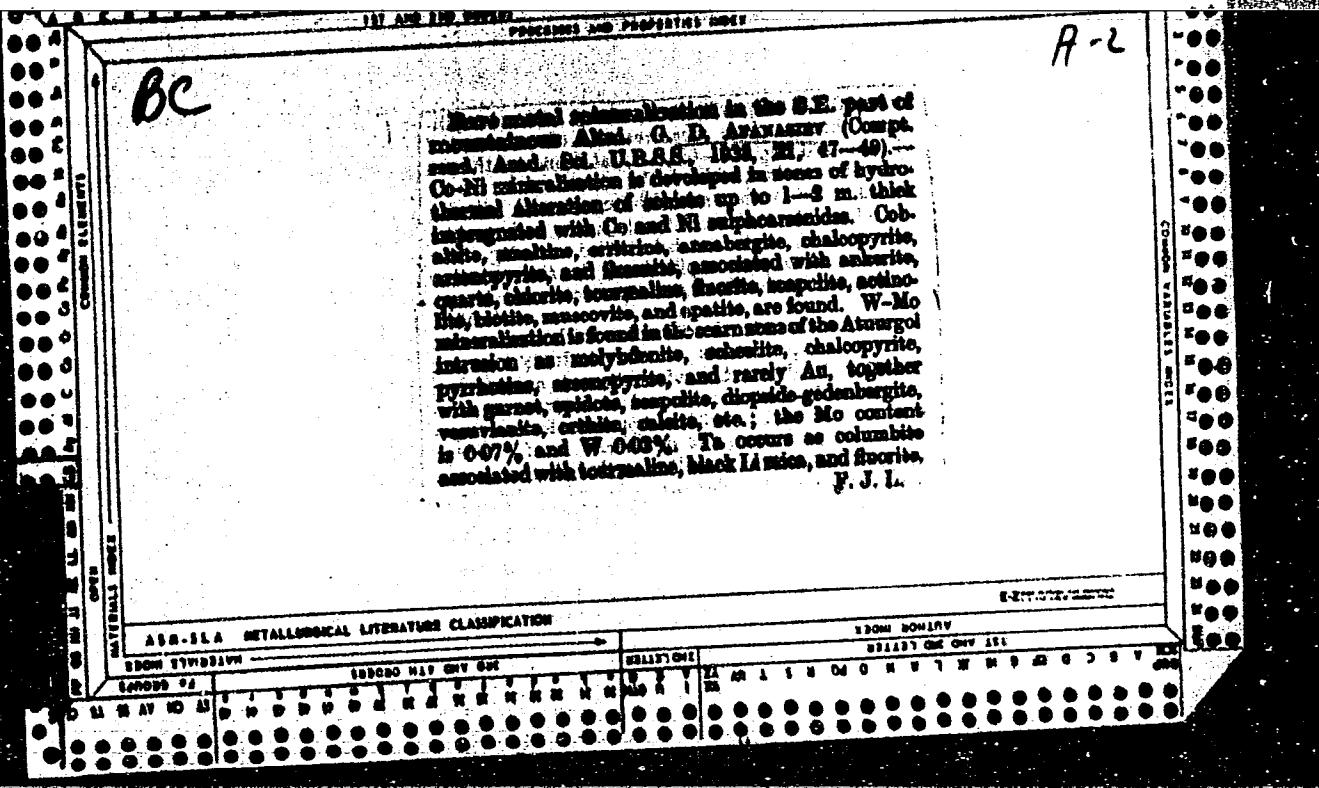
POSTOVSKIY, I.Ya.; AFANAS'YEV, G.B.

Reactions involving a nucleophilic addition of ~~benzo-~~-[ $\alpha$ ]-9-phenoxazinone and 9-dimethylaminobenzo-[ $\alpha$ ]-phenoxazonium chloride. Dokl. AN SSSR 153 no.3:612-615  
N '63. (MIRA 17:1)

1. Ural'skiy politekhnicheskiy institut im. S.M. Kirova.  
Predstavлено академиком M.M. Shemyakinyem.







CA

EIGENSTEIN AND SHUBERT, ETC.

A petrographic description of the Amur River region of  
Malyi Khingan. G. D. Almashev. *Geol. Petrogr. Iudostrovii Malyia Khingana*. Izdat. Nauk. S. S. R.,  
Dal'nievostok. Filial, Ser. Geol. I, 51. 112(1089). Khim.  
Referat. Zhur. 1939, No. 8, 22. Color analyses are given  
of porphyry-type granites, gneiss, gneisses, amphibolites  
and serpentinites. W. R. Hunt

ANSWER CARD - DETAILLED LITERATURE CLASSIFICATION



8

The genesis of the Mazul manganese deposit. G. D. Abdrashev, N. Kh. Aldin'yan and I. V. Borisevich. *Geofiz. zhurn.*, no. 1, U. R. S. S. 26, 702-5 (1940) (in English). The 1st 2 stages of mineralization which resulted in the deposition of 1st-generation rhodochrosite, pyrite and Mn oxide minerals, followed by 2nd-generation rhodochrosite, pyrite, francolite, barite, native Cu, etc. Rhodochrosite, chlorite, bischofite, metacarbonate, etc., are regarded as of hydrothermal origin. The origin of the minerals of the 3rd stage, rhodochrosite and zeolites, remains obscure. The oxidized cap consists of limonite, psilomelane and earthy and crystalline pyrolusite. The formation of kaolinite and quartz followed the deposition of the ore bodies. Analyses of samples representing the various stages are given. (P. W. Pearce)

## ASB-514 METALLURGICAL LITERATURE CLASSIFICATION

C. A.

Strontium in minerals of pegmatitic and hydrothermal derivatives of Caledonian intrusions. G. D. Afanasev (Geol. Inst., Acad. Sci. U.S.S.R.), *Doklady Akad. Nauk S.S.R.*, 62, 677-680 (1948). -The intrusive complex of the Urshtensk Ridge of the NW Caucasus is particularly remarkable because of the very low K content of the granitoid rocks. In the skarnlike contacts of the pegmatites with marmorized dolomitic limestones, a series of interesting transition rocks is observed, which are relatively high in apatite, ilmenite, also zircon and phlogopite. In muscovite mica Sr is low and Ba high (1% BaO); the reverse phenomenon is observed in epidote and zoisite (2 to 2.5% SrO, max. 0.4% BaO). A baryto-celestite with 21% BaO, 28.8% SrO is described which accompanies the pegmatite veins. The SrO content of the apatite is variable, with 0.35 and 4% as the extremes, BaO negligible. SrO is also relatively enriched in the dolomite skarns (0.6%), while BaO is very low. These characteristic migrations of Sr into the minerals of the Urshtensk pegmatites contrast with the absence of Sr in the K-enriched granitoids of the central main crest. The genesis of the apatites and silicate minerals described is hydrothermal, originating from an alkaliitic magma type, which is a late differentiation product of a much more basic abyssal magma. W. Pitel

Influence of microclinization on the granodioritic batholith type of intrusion of western Caucasus. G. I. Alimov. Izv. Akad. Nauk SSSR, Ser. Geol., 1989, No. 3, 27-44. A discussion of the genesis of the porphyry variety of complex of the mountains of the central part of the Northwest Caucasus. According to A., they formed after the formation of the complex as a result of metasomatic reformation. Data are provided. Gladys S. Mack  
31 references.

Comparison of intrusive complexes of some districts of the U.S.S.R. G. D. Almasov. *Izvot. Akad. Nauk S.S.R., Nei. Nauk.* 1949, No. 4, 3-18. A discussion of the results of petrographic investigations in several regions, such as the Caucasus, Altai, and Eastern Siberia. Comparison of Paleozoic intrusion complexes led A. to conclude that in the folded mountain region in the "abyssal" phase of development there are two chem. types of gray igneous rock. The older type, of Caledonian age, is represented by rocks from ultrabasic to soda granites and pegmatites. The younger type, of Varisean age, is represented by rocks from granodiorite to potash alaskites (granitic). A table giving chem. analyses for Na<sub>2</sub>O, K<sub>2</sub>O, and SiO<sub>2</sub> for the intrusion complexes of these regions of the U.S.S.R. is given.

Gladys S. Macy

AFANAS'YEV, G. D.

36606. F. Yr. Levinson - Lessing O Prioritete Russkikh Ietrografov. 26 let So  
Dnya Vykhoda Knigi ((Uspekhi Petrograffii V Rossii)). Izvestiya Akad. Nauk SSSR,  
Seriya Geol., 1949, No. 6, c. 9-12.

Letopis' Zhurnal'nykh Statey, Vol. 50, Moskva, 1949

AFANAS'YEV, G. D.

USSR/Geology - Petrography

Jul/Aug 50

"Some Problems of Petrography in Connection With  
Metallogenic Generalizations," G. D. Afanas'yev

"Iz Ak Nauk SSSR, Ser Geol" No 4, pp 53-66

Discusses relation between mineralization and mag-  
matic complexes and evolution in time of processes  
in the light of formation of geosynclinal structures  
in the USSR.

162T44

AFANAS'YEV. G. D.  
AFANAS'YEV, G.D.

Jul/Aug 51

USSR/Geophysics - Granites

"The Role of Granitization in the Formation of  
Granitoid Massives of Certain Folded Fields,"  
G. D. Afanas'yev

"Iz Ak Nauk SSSR, Ser Geol" No 4, pp 5-18

Lecture delivered at session of the Dept of Geo-  
logic and Geographic Sci, Acad Sci USSR, held  
20 Jun 51, on present knowledge of the problem of  
granites in USSR and abroad; lower paleozoic com-  
plex; middle paleozoic magmatic complex; upper  
paleozoic complex; conclusions on the role of  
granitization during the formation of paleozoic  
granitoids of north Caucasus; literature.

188T43

LC

CA

Some data on the petrographic significance of potassium, sodium-feldspars. (G. D. Almazov, Izdat. Akad. Nauk U.S.S.R., Ser. Geol. No. 6, 31-43 (1951).—Chemico-mineralogical studies of several K, Na-feldspars were made. The chief problem considered was that of the specific compn. of these minerals. A. concludes: (1) It is necessary in calcs. of the compn. of K, Na-feldspars to consider their structures and the presence of microscopic impurities, but not to proceed exclusively from the total chem. analysis of the mineral; (2) essentially K feldspars are the fundamental substance of K,Na-feldspar, in spite of all the significantly different total chem. compns., and seem to be close to that found in conformity with small changes of characteristic optical properties; and (3) especially it is possible to visualize K,Na-feldspars in relation to the different substances crystg. initially and their change up to the transition to different ones stable under the thermodynamic conditions of the earth's surface in relation to the condition of origin of one or the other K,Na-feldspar. There are tables giving results of chem. analyses of the K,Na-feldspars and tables showing the correspondence between optical const. and chem. compn. of these feldspars.

Gladys S. Macy

AFANAS'YEV

USSR/Geophysics - Academy of Sciences Jan/Feb 52

"Our Urgent Problems," D. S. Belyankin, G. D.  
Afanas'yev

"Iz Ak Nauk SSSR, Ser Geol" No 1, pp 3-5

Summarizes the results of conferences held to discuss coordination of plans for the scientific investigations by Acad Sci USSR, its affiliates, and the academies of sciences of the Union republics.

205T61

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100410010-4

AFANAS'YEV, G.D.; AYDIN'YAN, N.Kh.

The sodium margarite of the northern Caucasus. Izvest. Akad. Nauk  
S.S.S.R., Ser. Geol. '52, No.2, 138-40.  
(CA 47 no.14:6830 '53) (MLRA 5:4)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100410010-4"

BELYANKIN, B.S., akademik, redaktor; VLASOV, K.A., redaktor; AFANAS'YEV,  
G.D., redaktor; PEYVE, A.V., redaktor; PUSTOVALOV, L.V., redaktor;  
STRAKHOV, N.M., redaktor; YABLOKOV, V.S., redaktor

[Resolution of a conference on sedimentary rocks] Reshenie sove-  
shchaniia po osadochnym porodam. Moskva, Izd-vo Akademii nauk  
SSSR, 1953. 31 p. [Microfilm] (MIRA 7:10)

1. Chlen-korrespondent AN SSSR (for Strakhov) 2. Akademiya nauk  
SSSR. Otdeleniye geologo-geograficheskikh nauk.  
(Rocks, Sedimentary)

AFANAS'YEV, G.D., doktor geologicheskikh-mineralogicheskikh nauk, redaktor; BARSANOV, G.P., redaktor; VOROB'YEVA, O.A., redaktor; ZALESSKIY, B.V., redaktor; LAPIN, V.V., redaktpr; LEBEDEV, A.P., redaktor; NALIVKIN, V.V., akademik, redaktor; PETROV, V.P., redaktor; TSVETKOV, A.I., redaktor; DOLGOPOLOV, N.N., sostavitel'.

[Problems in petrology and mineralogy] Voprosy petrografii i mineralogii. Vol. 1, Moskva, 1953. 515 p. (MIRA 7:4)

1. Akademiya nauk SSSR.

(Petrology) (Mineralogy)

AFANAS'Y.V., :

D

Materialy k probleme proiskhozhdeniya granitov v svete dannykh po granitoidam nekotorykh oblastey SSSR (Material on problems of the origin of granite in the light of data concerning granite in several oblasts of the USSR) Moskva, 1953. p. 7-48 illus., diagrs., regraficheskaya seriya (no. 44) 1953) "Literatura": p. 48-(49)

N/5  
622.4  
.A2

PA 245T47

USSR/Geophysics - Granites

Jan/Feb 53

"The Problem of Granites," G. D. Afanas'yev

"Iz Ak Nauk, Ser Geolog" No 1, pp 63-68

Exposition of author's conclusions as to the evolution of magmatism and some problems of petrogenesis on data of the North Caucasian folded region. Also a critical discussion of P. N. Kropotkin's views concerning certain problems of petrogenesis and trends in the earth's geological development.

245T47

AFANAS'YEV, G.D.

Garnet vein in serpentines of the Dakhovskiy Massif (Northwestern Caucasus). (In: Akademija nauk SSSR. Voprosy petrografii i mineralogii. Moskva, 1953. Vol. 1, p.319-327) (MLRA 7:4)  
(Caucasus, Northern--Garnet) (Garnet--Caucasus, Northern)

USSR/Geophysics - Petrography May/Jun 53

"Results of the First Conference on Magmatic Petrography in the Academy of Sciences USSR," D. S. Bel'yankin and G. D. Afanas'yev

Iz Ak Nauk SSSR, Ser Geol, No 3, pp 3-6

Report the petrographers' conference held Apr 53 on "Laws Governing the Development of Magmatism in Connection With Useful Minerals." Discuss the 31 reports given on general problems of petrography, certain problems of magmatism, and the metallogeny in individual areas of the USSR.

265Tr9

AFANAS'YEV, G. D.

Jul/Aug 53

USSR/Geology - Obituary

"Academician Dmitriy Stepanovich Belyankin (Obituary)," G. D. Afanas'yev, B. P. Belikov, O. A. Vorob'yeva, B. V. Zalesskiy, V. V. Lasin, V. P. Petrov

Iz Ak Nauk SSSR, Ser Geol, No. 4, pp 5-12

Announce demise of D. S. Belyankin (23 Aug 1876-20 Jun 1953), prominent geologist and petrographer of USSR.

262T42

AFANASYEV, G. D.

USSR/Geology - L'agma

"Magmatic Complexes and Geological Mapping," G. D. Afanasyev

Iz Ak Nauk SSSR, Ser Geol, No 5, pp 20-95

States that in order to forecast mineral deposits and to solve individual problems of geology, magmatic complexes should be reflected on a geological map in their stratigraphic sequence, while extensively using approved procedures for determining absolute geological age.

265 T 72

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100410010-4

AFANAS'YEV, G.D.

SHCHERBAKOV, D.I., akademik; AFANAS'YEV, G.D.

For further advances in Soviet geology and geography. Izv. AN SSSR. Ser.  
(MIRA 7:1)  
geol. no.6:3-13 N-D '53.

1. Chlen-korrespondent Akademii nauk SSSR.  
(Geology, Economic)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100410010-4"

*AFANAS'YEV, G.O.*

USSR/Geology - Rock formation

Card 1/1 Pub. 46 - 7/19

Authors

*Afanas'yev, G. D.*

Title

*Some problems of first importance of the magma phenomena of the northern Caucasus region*

Periodical

*Izv. AN SSSR. Ser. geol. 5, 90 - 103, Sep -Oct 1954*

Abstract

*Attention is drawn to the need of more intense study of the magma phenomena of the northern Caucasus region near Mount Elbrus. It is considered particularly important to study the ages of a number of intrusions and in this connection the formation of ore deposits in the light of petrographic facts in the western Caucasus region. Data are also presented of the specific material forming the rocks and other peculiarities of the appearance of magma during the Cenozoic period. Twenty Russian and Soviet references (1915 - 1952). Map; tables; illustrations.*

Institution: .....

Submitted: June 19 1954

LEVINSON-LESSING, F.Yu. [Loewinson-Lessing, F.Yu.], akademik; AFANAS'YEV,  
G.D., redaktor; BEL'SHTERLI, M.K., redaktor; VOROB'YEVA, O.A.,  
redaktor; PETROV, V.P., redaktor; BEL'SHTERI, M.K., redaktor  
izdatel'stva; ZELENKOVA, Ye.V., tekhnicheskiy redaktor

[Selected works] Izbrannye trudy. Moskva, Izd-vo Akad.nauk SSSR.  
Vol.4. 1955. 446 p. (MLRA 10:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Afanas'yev)  
(Petrology)

SHCHERBAKOV, D.I., akademik, redaktor; AFANAS'YEV, G.D., redaktor;  
VLASOV, K.A., redaktor; PEYVE, A.V., redaktor; PUSTOVALOV, L.V.,  
redaktor; YABLOKOV, V.S., redaktor; NOSOV, G.I., redaktor.

[Conference on sedimentary rocks] Soveshchanie po osadochnym  
porodam. Moskva, Izd-vp Akademii nauk SSSR. No.2 [Proceedings]  
Doklady. 1955. 262 p. [Microfilm] (MERA 8:7)

1. Chlen-korrespondent AN SSSR (for Afanas'yev). 2. Akademiya  
nauk SSSR. Otdeleniye geologo-geograficheskikh nauk.  
(Rocks, Sedimentary)(Bibliography - Rocks, Sedimentary)

AFANAS'YEV, G.D.

New data on the age of magmatic rocks of the Northern Caucasus. Biul.  
Kom.po opr.abs.vozr.geol.form. no.1:9-21 '55. (MLRA 9:10)

1. Institut geologicheskikh nauk AN SSSR.  
(Caucasus, Northern--Rocks, Igneous)

USSR/ Scientific Organization - Geology

Card 1/1 Pub. 46 - 3/21

Authors : Afanas'yev, G. D.

Title : Preliminary report on a visit to India

Periodical : Izv. AN SSSR. Ser. geol. 1, 16-33, Jan-Feb 1955

Abstract : A general report is given on the visit of a Soviet delegation of scientists to India, where they took part in a scientific congress which began its sessions on 2 January 1954, the author being the sole geologist in the group. The report deals with the work of the congress, geological scientific research institutions and higher educational establishments of India, outlines of the geology, magmatism and metal sources of India, petrographic observations, the geological role of alkaline spart in granitoid rocks of certain regions and useful minerals. Eleven references: 4 USSR and 7 Indian (1949-1954). Illustrations; tables.

Institution : ....

Submitted : ....

AFANAS'YEV, G.-D.

Problem of age of magmatic rocks of northern Caucasus.  
G. D. Afanasyev, Izvest. Akad. Nauk S.S.R., Ser. Geol. 1955, No. 4, 67-78. A review of existing data relating to the age of magmatic rocks of northern Caucasus. Some of these data are tabulated. There is also a brief table of isotopic composition of Pb ores. 27 references. G. S. M.

AFANAS'YEV, G.D.; MASURENKOV, Yu.P.

Cenozoic magmatism of the Central Caucasus. Dokl.AN SSSR 105 no.3:  
558-561 N '55. (MLRA 9:3)

1. Chlen-korrespondent AN SSSR (for Afanas'yev); 2. Institut  
geologicheskikh nauk Akademii nauk SSSR.  
(Caucasus--Volcanic ash, tuff, etc.)

LAPIN, Vladimir Vasil'yevich; AFANAS'YEV, G.D., redaktor; TSVETKOV, A.I.,  
redaktor; IWANOV, B.V., redaktor; PAVLOVA, Ye. B., tekhnicheskiy  
redaktor.

[Petrography of metallurgical and fuel slags] Petrografiia metallurgi-  
cheskikh i toplivnykh shlakov. Moskva, Izd-vo Akademii nauk SSSR, 1956.  
323 p. (Akademii nauk SSSR. Institut geologii rudnykh mestorozhdenii,  
petrografii, mineralogii i geokhimii. Trudy, no.2) (MLRA 9:10)

1. Chlen-korrespondent AN SSSR (for Afanas'yev).  
(Slag) (Petrology)

AFANAS'YEV, G.D.

Principal results of the study of the magmatic geology of the  
Northern Caucasian folded region. Izv.AN SSSR Ser.geol. 21 no.3:  
7-33 Mr '56.  
(MIRA 9:7)

1.Institut geologii rydnykh mestoreshdeniy, petrografii i mineralo-  
gii AN SSSR, Moskva.  
(Caucasus, Northern--Rocks, Igneous)

ПРИЛОЖЕНИЯ, 15 в.

SHCHERBAKOV, D.I., akademik; SHATSKIY,N.S., akademik; MIRONOV, S.I., akademik;  
STRAKHOV, N.M., akademik; KORZHINSKIY, D.S., akademik; BETEKHTIN, A.G.,  
akademik; NALIVKIN, D.V., akademik; POLKANOV, A.A., akademik; AFANAS'YEV,  
G.D.; VLASOV, K.A.; CHUKHROV, F.V.; LEVITSKIY, O.D.; PAVLOWSKIY, Ye.V.,  
professor; BARSANOV, G.P., professor; YERSHOV, A.D.; IVANOV, B.V.;  
YABLOKOV, V.S.; ARDASHNIKOVA, S.D.

Academician Vladimir Afanas'yevich Obruchev, hero of socialist labor;  
obituary. Izv. AN SSSR. Ser.geol. 21 no.6:5-10 Je'56. (MIRA 9:10)

1. Chlen-korrespondent Akademii nauk SSSR (for Afanas'yev, Vlasev,  
Chukhrov, Levitskiy).

(Obruchev, Vladimir Afanas'yevich, 1863-1956)

AFANAS'YEV, G.D., AZIZBEKOV, Sh. A., ZARIDEE, G.M., Prof.

"On Magnetism in the Caucasus." Report presented at the Inter-departmental Conference on the problems of the metallogeny of the Caucasus, Tbilisi 8-13 May 1957.

Corresponding Member of the Academy of Sciences USSR (on the Northern Caucasus).

Sum 1582

## Conference on Metallogeny of the Caucasus

11-58-3-13/14

of Geological-Mineralogical Sciences (Academy of Sciences of the Azerbaijan SSR) on the geological structure of Azerbaijan, and 3. by A.T. Aslanyan, Candidate of Geological-Mineralogical Sciences (Geological Administration of the Armenian SSR) - on the tectonic structure and metallogeny of Armenia.

G.D. Afanas'yev, Member-Correspondent of the USSR Academy of Sciences, Professor G.M. Zaridze (Georgian Polytechnical Institute); and Academician Sh.A. Azisbekov (Academy of Sciences of the Azerbaijan SSR); presented data on the magmatic rocks of different parts of the Caucasus.

Lectures on the metallogeny of different parts of the Caucasus were given by: G.I. Tvalchrelidze, Candidate of Geological-Mineralogical Sciences (KIMS), I.G. Magak'yan and S.S. Mkrtchyan, Academicians of the Academy of Sciences of the Armenian SSR; A.E. Bendeliani, Professor of the Georgian Polytechnical Institute, M.A. Kashkay, Academician of the Academy of Sciences of the Azerbaijan SSR; and L.P. Kharchuk, Candidate of Geological-Mineralogical Sciences (KIMS).

Lectures on separate questions of metallogeny of the Caucasus were given by: Professor G.D. Ashgirev (MGU) - on results of works of a Caucasian expedition of the MGU; Professor V.I. Smirnov (MGU) criticised the basic hypothesis of G. Shney-

Card 2/4

Abz. 34. 555R Ser. 858 - 3, p. 126-127

AFANAS'YEV, G. D.

Afanas'yev, G. D. - The Use of the K-Ar Method for Geology Judged by  
the Results Obtained at Prospecting Operations for Rocks and Minerals  
in the Caucasus.

The Sixth Session of the Committee for Determining the Absolute Age of  
Geologic Formations at the Department of Geologic-Geographical Sciences  
(OGGN) of the USSR Academy of Sciences at Sverdlovsk in May 1957

AFANAS'YEV, G.D.

STARIK, I.Ye., otvetstvennyy red.; SHCHERBAKOV, D.I., akademik, red.;  
BARANOV, V.I., prof., red.; SHATSKIY, N.S., akademik, red.;  
POLKANOV, A.A., akademik, red.; VINOGRADOV, A.P., akademik, red.;  
AFANAS'YEV, G.D., red.; GERLING, E.K. prof., red.; PEKARSKAYA,  
T.B., kand.geol.-min.nauk, red.; TUGARINOV, A.I., red.;  
CHERDYNTSEV, V.V., red.; POLYAKOVA, T.V., tekhn.red.

[Proceedings of the fourth session of the Commission for the  
Determination of the Absolute Age of Geological Formations,  
May 12-14, 1956] Trudy chetvertoi sessii Komissii po opredeleniiu  
absoliutnogo vozrasta geologicheskikh formatsii; 12-14 maia 1955 g.  
Moskva, 1957. 297 p.  
(MIRA 11:1)

1. Akademiya nauk SSSR. Komissiya po opredeleniyu absolyutnogo  
vozrasta geologicheskikh formatsiy. 2. Chlen-korrespondent  
AN SSSR (for Starik, Afanas'yev).  
(Geology, Stratigraphic)

SUBJECT: USSR/Geology

10-6-3/13

AUTHOR: Afanas'yev, G.D.

TITLE: On Cenozoic Magmatism of the Caucasus and on Some Results of Absolute Age Determination of Caucasian Rocks by the K - Ar Method (O kenozoyskom magmatizme Kavkaza i o nekotorykh itogakh opredeleniya absolyutnogo vozrasta kavkazskikh porod K - Ar metodom)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957, # 6, p 30-54 (USSR)

ABSTRACT: During the recent time, new intrusive and extrusive manifestations of Cenozoic magmatism have been discovered in the North Caucasus.

The author holds that Eldzhurtin granites and trachyte-liparite are of the Cenozoic (Tertiary) age.

The essential development of Cenozoic magmatism manifestations has been detected in the upheaval zone of the sub-meridional direction from Stavropol' to the parts of the Main Caucasus ridge near the mountain pass. The author considers the origination of the Tyrny-Auz intrusive formation as an extended

Card 1/6

10-6-3/13

TITLE: On Cenozoic Magmatism of the Caucasus and on Some Results of Absolute Age Determination of Caucasian Rocks by the K - Ar Method (O kaynozoyskom magmatizme Kavkaza i o nekotorykh itogakh opredeleniya absolyutnogo vozrasta kavkazskikh porod K - Ar metodom)

determination.

5. Small dikes of vitrophyre and pyroxene andesite-basalt represent the roots of effusive magmatism of the Quaternary age.

The author gives a map of distribution of magmatism manifestations for most areas for which the Cenozoic age has been confirmed by the data of absolute age.

The author cites figures of the age of some rocks determined by the K - Ar method, and points out that some of them differ from the data obtained by other methods. He sees the reasons for these discrepancies first in the non-simultaneous origination of individual minerals composing those rocks, and second, in the migration of argon from the minerals into the atmosphere.

Card 3/6

In Table 4 of the article data are compiled for age determin-

10-6-3/13

## TITLE:

On Cenozoic Magmatism of the Caucasus and on Some Results of Absolute Age Determination of Caucasian Rocks by the K - Ar Method (O cenozoyskom magmatizme Kavkaza i o nekotorykh itogakh opredeleniya absolyutnogo vozrasta kavkazskikh porod K - Ar metodom)

ation of various minerals of the same rocks. Conclusions drawn from this table are:

1. The age values of both the muscovite and perthitized microcline from the same pegmatite vein turned out to be identical, 190,000,000 years, for the certain section of the North Caucasus. These values agree also with geological data of their age.

2. The rigid massif of the Perekovoy mountain ridge was intruded in the region of the Yatyrqvarta mountain with small intrusions of diorites and anorthoclase granites. Here the age values of individual rocks vary from 175 to 220 million years.

3. Pebbles of the pegmatoid microcline granites found in the left bank of the Malaya Laba River are 210,000,000 years old.

Card 4/6

Afanas'yev, G.D.

11-11-4/9

AUTHOR: Afanas'yev, G.D.

TITLE: Some Geologic Problems of Petrology (O nekotorykh geologicheskikh problemakh petrologii)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957,  
# 11, p 32-49 (USSR)

ABSTRACT: Two objects are of primary importance for contemporary petrology: complex petrographical-geological-geochemical studies of mountain rocks, and experimental-synthetic studies of the processes of mineralization and rock forming. Territorial ties existing between rocks of volcanic origin and endogenous mineral deposits permit the empiric conclusion of genetic connections existing between these two formations. The author gives some information on the status of petrographic exploration of the USSR and publishes numerous names of geologists-scientists engaged in this work. He is of the opinion that considerable research work has yet to be done in order to establish conformity to established rules of the formation of magmatic complexes. The author cites several intrusions of the north Caucasus region which were established in conjunction with determination of the absolute age. Summarizing, the following problems have to be solved by magmatic geology:

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Some Geologic Problems of Petrology

11-11-4/9

1. Systematic studies of magmatism of USSR territories must be continued. Among the basic tasks which have to be accomplished are the age determination of various magmatic complexes with special emphasis on paleovolcanism, metamorphic layers and metamorphic processes.
2. In territories which have been relatively well investigated (Kazakhstan, Urals, Caucasus and others) further detailed studies are necessary in order to:
  - a. Establish the regularity of magmatic evolution as to time and location in conjunction with the forming of geologic structures, the locations of ore deposits during magmatic processes and to clarify the genetic connections existing between mineralization and intrusions, and to prepare prospecting criterions. These studies are especially promising in areas of Meso- and Cenozoic magmatism, as found in Kamchatka, Primor'ye and in the Caucasus.
  - b. Clarify the relations existing between intrusive and effusive magmatism in connection with geologic development of the respective regions.
  - c. Analyze the question of magmatic formations, facies and regions, especially for determining the depth of intrusions.

The author recommends close cooperation of geophysicists for

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conducting petrologo-geophysical research and systematic studies  
of the absolute age of magmatic rocks.  
There are 35 references, of which 28 are Slavic (Russian).

AVAILABLE: Library of Congress

Card 3/3

Afanas'yev, G. P.

11-12-8/10

AUTHORS: Shcherbakov, D.I., Afanas'yev, G.D., and Yershov, A.D.

TITLE: Actual Member of the Academy of Sciences of the Georgian SSR  
Alexander Antonovich Tvalchrelidze (Deystvitel'nyy chlen  
akademii nauk Gruzinskoy SSR Aleksandr Antonovich Tvalchre-  
lidze)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1957,  
# 12. pp 109-110 (USSR)

ABSTRACT: Professor Aleksandr Antonovich Tvalchrelidze died on 29 July 1957 at the age of 76. He was a prominent scientist, actual member of the Academy of Sciences of the Georgian SSR, director of the Caucasian Institute for Mineral Resources of the Ministry of Geology and Conservation of Natural Resources, chairman of the council for study of power resources of the Academy of Sciences of the Georgian SSR and Head of the Chair for Mineralogy and Petrography at the State University of Tbilisi.

AVAILABLE: Library of Congress

Card 1/1

AFANAS'YEV, G.D.

Weak geological foundations for the magmatic geology of the front range of the northwestern Caucasus ("Magmatic geology of the front range of the northwestern Caucasus" by A.A. Kadenskii. Reviewed by G.D. Afanas'yev. Izv.AN SSSR.Ser.geol. 22 no.2:109-114 F '57.  
(Caucasus, Northern--Geology) (MLRA 10:5)  
(Kadenskii, A.A.)

AFANAS'YEV, G.D.; BORSUK, A.M.

Alkaline trachytes in the northwestern Caucasus. Izv. AN SSSR, Ser.  
geol. 22 no.3:83-87 Mr '57. (MLRA 10:5)

1.Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii  
i geokhimii AN SSSR, Moskva.  
(Caucasus, Northern--Trachyte)

AFANAS'YEV, G.D.

Cenozoic magmatism of the Caucasus and some data on the determination  
of the absolute age of Caucasian rock varieties by means of the K-Ar  
method. Izv. AN SSSR. Ser. geol. 22 no. 6:30-54 Je '57. (MLRA 10:8)

I. Institut geologii rudnykh mestorozhdeniy petrografii, mineralogii  
i geokhimii Akademii nauk SSSR, Moskva.  
(Caucasus--Rocks, Igneous)  
(Geological time)

AFANAS'YEV, G. D.

"The determination of the absolute age of rocks and their geological importance"

report presented at the Second All-Union Conf. on Petrography, Tashkent, 19-23 May 1958 (Geokhimiya, 5, '58, p507)

STARIK, I.Ye., otd. red.; SHCHERBAKOV, D.I., akad., red.; VINOGRADOV, akad., red.; SHATSKIY, N.S., akad., red.; POLKANOV, A.A., akad., red.; AFANAS'YEV, G.D., red.; BARANOV, V.I., prof., red.; PEKARSKAYA, T.B., kand. geol.-miner. nauk, red.; IVANOV, B.V., red. izd-va.; RYLINA, Yu.V., tekhn. red.

[Proceedings of the fifth session of the Commission to Determine the Absolute Age of Geological Formations] Komissiya po opredeleniiu absolutnogo vozrasta geologicheskikh formacii. Trudy piatoi sessii...; 19-23 maja 1956 g. Moskva, 1958. 367 p. (MIRA 11:11)

1. Akademiya nauk SSSR. Komissiya po opredeleniyu absolyutnogo vozrasta geologicheskikh formacii. 2. Chlen-korrespondent AN SSSR(for Starik, Afanas'yev).

(Geological age)

AFANAS'YEV, Georgiy Dmitriyevich; PETROV, V.P., otv. red.; SHBOLOV, S.P.,  
red. Izd-va; MAKUNI, Ye.V., tekhn. red.

[Geology of magmatic complexes in the Northern Caucasus and principal  
characteristics of mineralization connected with them] Geologiya  
magmaticheskikh kompleksov Severnogo Kavkaza i osnovnye cherty svia-  
zannoi s nimi mineralizatsii. Moskva, Izd-vo Akad. nauk SSSR, 1958.  
135 p. (Akademija nauk SSSR. Institut geologii rudnykh mestorozhdenii,  
petrografii, mineralogii i geokhimii. Trudy, no.20). (MIRA 11:5)  
(Caucasus, Northern--Rocks, Igneous)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100410010-4

SHARIK, I.Y.; SHVARTZMAN, D.I.; VASILYEV, A.V.; VORONOV, V.P.; VORONOV, V.L.  
L.I.; POKORNAYA, T.S.; TOLSTYKH, V.A.; VASILYEV, V.N.  
Absolute accuracy of the U.S.S.R. Biplane. To obtain best results  
form. No. 37-15. (Gyroscopic tire)

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000100410010-4"

, AFANAS'YEV, G.D.

AUTHORS: Afanas'yev, G.D., Tseytlin, S.G.

11-58-3-2/14

TITLE: Preliminary Results of the Study of Rock Radioactivity in North Caucasus and Their Importance for Several Problems of Petrology (Predvaritel'nyye itogi izucheniya radioaktivnosti gornykh porod Severnogo Kavkaza i ikh znacheniye dlya nekotorykh problem petrologii)

PERIODICAL: Izvestiya Akademii Nauk SSSR, Seriya Geologicheskaya, 1958, # 3, pp 16-30 (USSR)

ABSTRACT: This article sums up the works of many geologists and petrographers and presents a detailed table of the stratigraphic classification of magmatogenic rocks of the North Caucasus according to their age. It stresses the importance of studying the presence of the radio-active elements in these rocks. These studies are not yet completed, but from preliminary surveys it was possible to prepare tables of these rocks according to their age and to their petrographic peculiarities. The study of endogenous processes in the earth-crust will enable us to enlarge our knowledge of the general structure of the earth and, especially, to substantiate a theory on the development of volcanoes, which perhaps derive their energy from the process of disintegration of radioactive elements

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Preliminary Results of the Study of Rock Radioactivity in North Caucasus  
and Their Importance for Several Problems of Petrology

which generate the initial heat. The authors cite a number of foreign and Soviet scientists and geologists and conclude that the systematic study of the presence of radioactive elements in various rock formations will help to solve the question of volcanic heat. There are 14 Soviet, 4 American, 2 English, 1 Japanese and 1 Mexican reference.

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii Akademii Nauk SSSR, Moskva (Institute for Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry of the USSR Academy of Sciences, Moscow)

SUBMITTED: November 14, 1957.

AVAILABLE: Library of Congress  
Card 2/2

*Afanas'ev*

AUTHORS: Khamrabayev, I.Kh. and Rub, M.G. SOV-11-58-10-12/12

TITLE: The Second All-Union Petrographic Conference (Vtoroye vsesoyuznoye petrograficheskoye soveshchaniye)

PERIODICAL: Izvestiya Akademii nauk, SSSR, Seriya geologicheskaya, 1958, Nr 10, pp 124 - 126 (USSR)

ABSTRACT: The above-mentioned conference took place in Tashkent from 19 to 23 May 1958. Over 1,000 representatives of over 100 geological organizations and vuzes took part in the conference. Scientists from China, Poland, East Germany, Rumania and Bulgaria also attended. The conference was opened by the president of the AS of the UzbekSSR Kh.M. Abdullayev. The Minister of Geology and Conservation of Mineral Resources of USSR P.Ya. Antropov reported on the extent of knowledge of the territory of the USSR, and on problems of petrology. Lectures were given at plenary sessions by Academician S.T. Dmitrov (Bulgaria), K. Smulikowski (Poland), Prof. Kautsh (E.Germany), Academician D.S. Korzhinskiy, Corresponding Members G.D. Afanas'yev, Yu.A. Kuznetsov, N.A. Yeliseyev and others. The majority of lectures and reports were concerned with the definition of regularities of manifestation of magmatism in various regions of the Union, and peculiarities of their metallogeny. Yu.A. Kuznetsov and Yu.M. Sheynman reported on

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The Second All-Union Petrographic Conference

SOV-11-58-10-12/12

general questions in the development of magmatism. The problem of genetic connection of endogenous mineralization with magmatism was the theme of many reports, among them a collective report by the scientific collaborators of the Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry of the AS USSR V.S. Koptev-Dvornikov, O.S. Polkways, N.G. Rub, I.Ye. Smorchkov and F.K. Shipulin and also the reports by Ye.A. Radkevich, I.G. Nagak'yan and S.S. Mkrtchyan (Institute of Geology of the AS of Armenia SSR) and by M.P. Materikov (VIMS). G.S. Dzotsenidze, M.A. Kashkay, Sh.A. Azizbekov, N.A. Favorskaya and A.M. Kalik reported on the problem of the correlation of ore-bearing with effusive formations. A.P. Lebedev and G.G. Moor reported on the magmatic formations of the plateau regions. O.A. Vorob'yeva, V.K. Monich and G.P. Bagdasaryan reported on peculiarities of manifestations of alkaline magmatism in certain regions. The physico-chemical trend in the study of magmatic and post-magmatic formations was represented in reports by D.S. Korzhinskiy, V.A. Maslennikov and I.G. Govorov. The problem of genezis, the distribution of metamorphic rocks and their classification were the themes of reports by the Ukrainian geo-

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The Second All-Union Petrographic Conference

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ologists N.P. Semenenko, Ya.N. Belevtsev and S.P. Rodionov.-B.V. Zalesskiy, B.F. Belikov and Yu.A. Rozanov reported on physical, chemical and mechanical properties of rocks and on methods of their study. N.I. Knitarev reported on "Problems of Petrogenesis in the Light of Experimental Data", and G.D. Afanas'yev reported on "Some Data on the State of the Study of the Absolute Age of Rocks and Their Geological Importance". Finally a resolution was adopted in which the conference, after having enumerated the achievements of Soviet petrographers, complained about the shortage of laboratories for petrographers and stressed the importance of the further study of magmatic processes.

1. Geology--USSR

Card 3/3

USCOMM-DC-55822

AUTHOR:

Afanas'yev, G.D.

SOV/11-58-12-5/15

TITLE:

~~Veined Melanocratic Rocks as Exemplified by Certain Regions of the USSR (O zhil'nykh melanokretovykh porodakh na primere nekotorykh rayonov SSSR)~~

PERIODICAL:

Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1958,  
Nr 12, pp 45-63 (USSR)

ABSTRACT:

The author makes an attempt to generalize and also to determine more accurately existing ideas on veined melanocratic rocks associated with the granitoid intrusions usually classified as lamprophyres. According to G. Rozenbush, the lamprophyres are not an independent formation as they exist only in the vicinity of plutonic rocks. Their other characteristic is that they are rocks of granular or porphyritic structure. The author sums up the opinions of many geologists, gives the result of the study of melanocratic rocks in various parts of the USSR, and comes to the conclusion that no well-defined solution of this problem can yet be given. Existing data on the comagmatism of lamprophyric and leucocratic veined rocks of an intrusive block permit one to assume that these two rocks are the differentiates of a re-

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Veined Melanocratic Rocks as Exemplified by Certain Regions of the USSR

residual magma left after the crystallization of the intrusion of quartz-dioritic-granodioritic-granitic components. The composition of residual magma is different for granitoid rock formations of different age and type. The following geologists who worked on this problem are cited by the author: B.M. Kupletskiy, O.S. Polkovoy, Kh.M. Abdullayev, A.N. Zavaritskiy, D.S. Korzhinskiy, V.S. Koptev-Dvornikov, V.K. Monich, M.A. Favorskaya, Ye.I. Dolomanova, O.P. Polyakova, V.S. Kormilitsyn, M.M. Povitaykis, N.V. Mayorov, A.G. Komarov and A.M. Borsuk. There are 7 tables and 25 references, 23 of which are Soviet, 1 French and 1 Spanish.

Card 2/2

AUTHORS: Afanas'yev, G.D., and Borsuk, A.M. SOV/11-59-2-2/14

TITLE: New Data on the Post-Jurassic Magmatism of North-Western Caucasus (Novyye dannyye o posleyuriskom magmatizme Severo-Zapadnogo Kavkaza)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 2, pp 24-42 (USSR)

ABSTRACT: The article deals with new data on the specific occurrence of Cenozoic magmatism in the western end of the main Caucasian ridge of mountains. The authors give a very detailed description of different magmatogenous rocks of this region, some of which were formed in the Eocene-Miocene period. The following geologists are mentioned: O.S. Vyalov, V.V. Belousov, B.M. Troshikhin, I.V. Belov, and A.P. Lebedev. There are 3 tables, 1 map and 6 photos and 21 references, 16 of which are Soviet, 2 English and 3 American.

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR (The Institute of Geology of Mineral Deposits, Petrography, Mineralogy and Geochemistry of the AS of the USSR) Moscow.

Card 1/2

A F ANALYSIS, G.D.

1(5)	Barinov, V. I., Knorre, K. G.	SOT/7-59-6-14/7
<b>ARTICLES:</b> XKRL: Chronology. The VIII Session of the Commission for the Determination of the Absolute Age of Geological Formations (at the Otdeleniye Geologicheskikh nauk AN SSSR, Department of Geological-Geographical Sciences AS USSR, May 16 - 22, 1959, Moscow)		
PERIODICAL: AMPHARIS:	Geologiya, 1959, No. 6, pp. 562 - 563 (USSR)	
	<p>The data presented at the (Commission on the Determination of the Absolute Age of Geological Formations) was held in Moscow from May 16 to May 22, 1959 at the Institute geochimii i analiticheskoy khimii im. I.I. Vernadskogo (Institute of Geochemistry and Analytical Chemistry inst. V.I. Vernadskogo). A series of summarizing reports was held on age determinations in the most important parts of the USSR, which are to be presented to the 21st International Geological Congress. The following reports are concerned:</p>	
	<p>A. V. Polikarov, E. N. Gerling: Problems of the absolute age of the Proterozoic of the Baltic Shield.          A. P. Vinogradov, L. V. Astier, A. I. Tuzhilin: The absolute age of the Ukrainian crystalline shield.          P. P. Semenenko, Ye. S. Butsev, and M. M. Frantseva: Groups of the differentiation of the rocks of the Urals in their absolute age.          A. P. Vinogradov, A. I. Tuzhilin, E. G. Knorre, and Ye. S. Butsev: The age of the Proterozoic rocks of the Russian Platform for the Eocene Platform.          I. Yu. Starik, A. Ya. Krylov, M. G. Rastich, Yu. I. Siliin: The absolute age of the rocks of the eastern part of the Antarctic continent.          A. Ya. Krylov: The absolute age of the rocks of the Tenural'nyy Tyan Shan, and the application of the argon method for metamorphic and sedimentary rocks.</p>	
Card 1/4	<p>G. D. Afanas'ev: Results of the geochronology formations of the Ural.</p> <p>L. P. Orshinikov and M. A. Gerasimova: Age of the geological formations of the Urals and the Priurals (Uralia).</p> <p>M. I. Polivka and G. A. Murtuk': G. A. Karadzov: Absolute age determination of the sedimentary and volcanic formations.</p> <p>L. P. Kravtsov and M. I. Polivka: Absolute age of the sedimentary (Gorskiy) Par Kast.</p>	
	<p>M. V. Kondratenko: Absolute age of the granite intrusions of Kazakhstan.</p> <p>The research work of a number of laboratories, BLM, GGDCh, GLACh, etc., in the aroused great attention, especially a report of E. K. Gol'din et al. on the concentration of the isotope <math>^{235}\text{U}</math> in uranium minerals as well as the comprehensive research work carried out by the Vostokovskaya Laboratoriya Akademii Nauk of Sciences of the Russian Academy of Sciences of the Institute of Isotopic dilution and sinkhole SII) under the application of isotopic dating and fission photometry. The determination of the age of sedimentary rocks was discussed. In his report how well radioactive carbon is conserved in destroyed products of rocks such as boulders, sands, sandstones, clays and muds. A. Yu. Flerov and S. I. Zafarov were the first to attempt to determine the absolute age of sedimentary carbonate formations according to isotopic composition of lead.</p>	

3(5)

SOV/11-59-9-2/18

AUTHOR: Afanas'yev, G.D.

TITLE: Certain Geological Results in the Study of Absolute Age of Rocks.

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya geologicheskaya, 1959, Nr 9, pp 12-22 (USSR)

ABSTRACT: The author discusses the importance of determining the absolute age of rocks for the solution of problems of petrogenesis and ore-formation connected with magmatic processes. Academician V.I. Vernadskiy was one of the first who appreciated the scientific and practical importance of radioactive methods for the determination of the absolute age of rocks. The main methods are as follows: The lead method, based on the disintegration of elements of the uranium, actino-uranium and thorium series. During recent years this method was particularly developed in the Radiyevyy Institut im. V.G. Khlopin (Radium Institute imeni V.G. Khlopin) and the

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NY 1-59-9-2/18

Certain Geological Results in the Study of the Absolute Age of Rocks

Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo (Institute of Geochemistry and Analytical Chemistry imeni V.I. Vernadskiy). The Argon method is based on the disintegration of the radioactive potassium isotope. The disintegration of the K 40 nucleus occurs by trapping the electron from the surrounding electronic shell. The Strontium method is based on the radioactivity of isotope Rb<sup>87</sup>, the content of which is 26.5% of rubidium. As a result of the disintegration of Rb<sup>87</sup>, radioactive Sr<sup>87</sup> accumulates in the minerals. The author believes that the most accurate way of determining the absolute age of minerals is the combined application of the Argon and Strontium methods. The author further gives absolute ages for rock formations of different parts of the Union. The age of pre-Cambrian formations of the Baltic and Ukrainian crystalline massifs was calculated in the Laboratories of the AS of the Ukrainskaya SSR, the Radium

Card 2/4

SCV/11-59-3-2/18

Certain Geological Results in the Study of Absolute Age of Rocks

Institute, the Institute of Geochemistry and Analytical Chemistry, Laboratoriya geologii dokembriya AN SSSR (the Laboratory of Pre-Cambrian Formations of the AS USSR), vsesoyuznyy n.i. geologicheskiy institut (the All-Union Geological Science Research Institute) and in the laboratory of E.K. Gerling. The age of these formations in the Urals was calculated by L.N. Ovchinnikov a.o.; in Central Asia - by D.I. Shcherbakov, A.Ya. Krylov a.o.; in the Transbaykalian region - by Ye.I. Dolomanova, and in the Far East - by N.I. Polevaya and Ye.K. Ustiyev. The author further describes research conducted in western countries, especially the USA. There are 11 references, 10 of which are Soviet and 1 American.

ASSOCIATION: Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii AN SSSR, Moskva.

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SOV/11-59-9-2/18

Certain Geological Results in the Study of Absolute Age of Rocks

(Institute of Geology of Mineral Deposits, Petrography, Mineralogy and Geochemistry of the AS USSR, Moscow)

SUBMITTED: 8 June 1959

Card 4/4

SEMENENKO, N.P., otd.red.; KORZHINSKIY, D.S., red.; AFANAS'LEV, G.D.,  
red.; ZAVIRYUKHINA, V.N., red.izd-va; MATVEYCHUK, A.A.,  
tekhn.red.

[Granite-gneiss] Granito-gneisy. Kiev, Izd-vo Akad.neuk USSR,  
1960. 174 p. (Doklady sovetskikh geologov. Problema 14).  
(NIRA 13:10)

1. International Geological Congress. 21st, Copenhagen, 1960.
2. Institut geologicheskikh nauk AN USSR (for Semenenko). 3. Insti-  
tut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i  
geokhimii AN SSSR (for Korzhinskiy).  
(Granite) (Gneiss)

AFANAS'YEV, G.D.; AFANAS'YEV, L.M.; BELIKOV, B.P.; KOPTEV-DVORNIKOV, V.S.; MIKHAYLOV, N.A.; MONICH, V.K.; FAVORSKAYA, M.A.: priminali uchastiye: DISTANOVA, A.N.; YELISEYEEVA, O.P.; MARFUNIN, A.S.; YUNAKOVSKAYA, Yu.V.; USTIYEV, Ye.K., doktor geol-min. nauk, otd. red.; NEMANOVA, G.F., red. izd-va; BYKOVA, V.V., tekhn. red.

[Principles of the geological mapping of intrusive and extrusive formations as exemplified by petrographic studies in Kazakhstan, Transbaikalia, the Northern Caucasus, and Maritime Province]  
Printsipy geologicheskogo kartirovaniia intruzivnykh i effuzivnykh formatsii na primere petrograficheskikh issledovanii Severnogo Kavkaza, Kazakhstana, Zabaikal'ia i Primor'ia. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po geol.i okhrane nadr, 1960.  
341 p.

(MIRA 14:5)

1. Akademiya nauk SSSR. Institut geologii rudnykh mestorozhdeniy, petrografii, mineralogii i geokhimii. 2. Sotrudnik Instituta geologicheskikh nauk AN Kaz. SSR (for Monich). 3. Sotrudnik Vsesoyuznogo geologicheskogo instituta (for Mikhaylov) 4. Sotrudniki Moskovskogo gosudarstvennogo universiteta (for Yunkovskaya, Distanova)

(Rocks, Igneous)

AFANAS'YEV, G.D., otv.red.; USTIYEV, Ye.K., doktor geol.-min.nauk, red.;  
GAPHEYeva, G.M., doktor geol.-min.nauk, red.; KOPTEV-DVORMIKOV,  
V.S., doktor geol.-min.nauk, red.; LEBEDEV, A.P., doktor geol.-  
min.nauk, red.; FAVORSKAYA, M.A., doktor geol.-min.nauk, red.;  
CHEPIKOVA, I.M., red.izd-va; DOROKHINA, I.N., tekhn.red.

[Petrographic provinces, igneous and metamorphic rocks] Petro-  
graficheskie provintsi, izverzhennye i metamorficheskie gornye  
porody. Moskva, Izd-vo Akad.nauk SSSR, 1960. 343 p. (Doklady  
sovetskikh geologov. Problema 13). (MIRA 13:9)

1. International Geological Congress. 21st, Copenhagen, 1960.
2. Chlen-korrespondent AN SSSR (for Afanas'yev).  
(Petrography)

STARIK, I.Ye., otv.red.; SHCHERBAKOV, D.I., akademik, zamestitel' otv. red.; BARANOV, V.I., prof., zamestitel' otv.red.; VINOGRADOV, A.P., akademik, red.; POLKANOV, A.A., akademik, red.; SHATSKIY, N.S., akademik, red.; AFANAS'YEV, G.D.; GERLING, E.K., prof., red.; PEKARSKAYA, T.B., kand.geol.-miner.nauk, red.; SIMKIN, S.M., red. izd-va; MAKUNI, Ye.V., tekhn.red.

[Transactions of the Seventh Commission on the Determination of the Absolute Chronology of Geological Formations] Trudy Sed'moi sessii Komissii po opredeleniiu absoliutnogo vozrasta geologicheskikh formatsii, 8-12 maia 1958 g. Moskva, 1960. 432 p. (MIRA 13:6)

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**representation" (Section VII.A)**
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**"Northeast fishes of the Antarctic and the problem of their**  
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- ADMIRALTY, P. P., and UCHIMOTO, H. S.,** Institute of Oceanology -  
**"The aqueous concretions of the Pacific Ocean" (Section VII.C.)**
- AMM, M. V. G. D. (Name blurred, but may be SOKOLOV, G. D.)**  
**Institute of Geology of Ore Deposits, Petrography, Mineralogy**  
**and Geochemistry - (Title of paper is blurred, following is**  
**appropriate title) "Hydrogenetic discontinuity [sic] layer**  
**and petrographic data" (Section VII.C)**
- BALAGUER, I. M.,** Institute Earth Physics (Inst. O. N. S. Chile) -  
**"The character of stresses and ruptures in the earthcrust foot of the**  
**Pacific seismic zone" (Section VII.C.)**
- BASILEVSKY, V. V.,** Institute of Zoology, "On the Pacific origin of  
**the Amakiriwa seals" (Section VII.C.)**
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**in the crust of the Tasman Sea" (Section VII.C.)**
- BENJAMINSON, K. V.,** Institute of Oceanology - "On the transformation  
**of the seabed of the Pacific Ocean and in the adjacent waters**  
**(Section VII.C.)**
- BENJAMINSON, K. V., and KOMAROV, G. I.,** Institute of Earth Physics (Inst.
- O. N. S. Chile) - "Genesis and age of the abyssal depression of**  
**the sea of Japan" (Section VII.C.)**
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- tears and shark teeth at the ocean floor" (Section VII.C.)**
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- and the geological history of the Odessa Sea" (Section VII.C.)**
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**I. B.,** Institute of Oceanology - "Recent sediments of the Pacific" (Section VII.C.)
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- Pacific Ocean" (Section VII.C.)**
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**the central part of the Pacific" (Section VII.C.)**
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**(Section VII.C.)**
- BENJAMINSON, K. V.,** Institute of Oceanology - "A study of faunal
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(for Lur'ye). 4. Institut geologii, Irkutsk (for Frolova).  
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